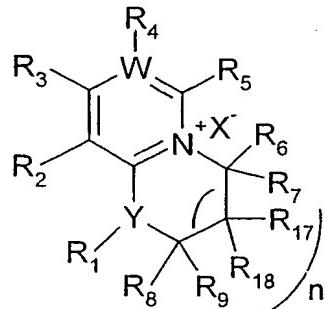


AP20 Rec'd PCT/PTO 26 MAY 2006

Claims:

1. A compound represented by Formula A:



wherein:

5 n = 0, 1, 2, or 3 such that:

when n = 0, the substituents R₁₇ and R₁₈ and the carbon atom to which they are bonded are not present; and

when n is 1, 2 or 3, the substituents R₁₇ and R₁₈ present on the respective carbon atom(s) may be the same 10 or different and are independently selected from hydrogen or a substituent;

W is C or N, such that when W is N, R₄ is a lone pair of electrons;

15

Y is selected from N, O or S, such that:

when Y is O or S, R₁ is a lone pair of electrons; or

when Y is N, R₁ is selected from hydrogen,

unsubstituted or substituted C₁₋₇alkyl, unsubstituted or

120 substituted C₁₋₇cycloalkyl, unsubstituted or substituted C₁₋₇cycloalkyl-C₁₋₇alkyl, unsubstituted or substituted C₅₋₂₀aryl, unsubstituted or substituted C₅₋₂₀aryl-C₁₋₇alkyl, unsubstituted or substituted C₃₋₂₀heterocyclyl, or a linking group to form a multimeric compound in which a 25 plurality of compounds represented by Formula A are covalently bonded together;

independently R₂ and R₃ and/or R₄ and R₅ together can form an aromatic carbon or heterocyclic ring structure,

optionally substituted with one or more aromatic substituents, or R₂, R₃, R₄ and R₅ are independently selected from an aromatic substituent;

5 R₆ and R₇ are independently selected from hydrogen or independently or together can be a substituent;

R₈ and R₉ are independently selected from hydrogen or independently or together can be a substituent;

10 wherein when R₁₇ and R₁₈ are present, they are independently selected from hydrogen or independently or together can be a substituent; and

15 one of the substituents R₆ and R₇ which is present on the carbon atom at the alpha position to the aromatic ring may form a double bond with one of the substituents R₈ and R₉, or R₁₇ and R₁₈ which is present on the carbon atom at the beta position to the aromatic ring; and

20 X⁻ is an anionic moiety;

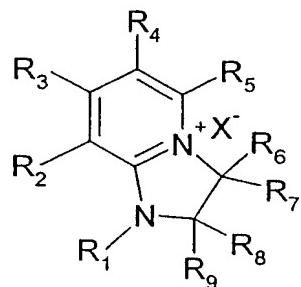
and wherein:

25 the substituent or substituents are independently selected from halo, hydroxy, oxo, ether, formyl, C₁₋₇alkylacyl, C₅₋₂₀arylacyl, acylhalide, carboxy, ester, acyloxy, amido, acylamido, thioamido, tetrazolyl, amino, nitro, nitroso, azido, cyano, isocyano, cyanato, isocyanato, thiocyanato, isothiocyanato, sulfhydryl, thioether, sulfonic acid, sulfonate, sulfone, sulfonyloxy, sulfinyloxy, sulfamino, sulfonamino, sulfinamino, sulfamyl, sulfonamido, C₁₋₇alkyl, C₁₋₇haloalkyl, C₁₋₇hydroxyalkyl, C₁₋₇carboxyalkyl, C₁₋₇aminoalkyl, C₅₋₂₀aryl-C₁₋₇alkyl, C₃₋₂₀heterocyclyl, or

C₅₋₂₀aryl; and

the aromatic substituent or substituents are independently selected from hydrogen, -F, -Cl, -Br, -I, -OH, -OMe, -OEt, 5 -SH, -SMe, -SET, -C(=O)Me, -C(=O)OH, -C(=O)OMe, -CONH₂, -CONHMe, -NH₂, -NMe₂, -NET₂, -N(nPr)₂, -N(iPr)₂, -CN, -NO₂, -Me, -Et, -CF₃, -OCF₃, -CH₂OH, -CH₂CH₂OH, -CH₂NH₂, -CH₂CH₂NH₂, -Ph, ether, ester, amido, amino, C₁₋₇alkyl, C₁₋₇haloalkyl, C₁₋₇hydroxyalkyl, C₁₋₇carboxyalkyl, 10 C₁₋₇aminoalkyl, or C₅₋₂₀aryl-C₁₋₇alkyl.

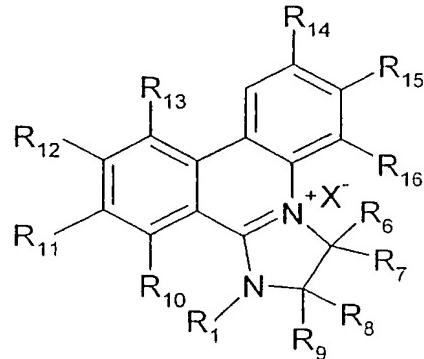
2. The compound according to claim 1, wherein the compound is represented by Formula Ai:



15

wherein the substituents are as defined in claim 1.

3. The compound according to claim 1 or claim 2, wherein the compound represented by Formula Aii:



20

wherein the R₁, R₆, R₇, R₈ and R₉ substituents are as defined in claim 1 and R₁₀, R₁₁, R₁₂, R₁₃, R₁₄, R₁₅ and R₁₆ substituents are independently selected an aromatic substituent.

5

4. The compound according to any one of the preceding claims, wherein R₁ is a substituted C₁₋₇alkyl group selected from substituted C₁₋₇alkyl, C₁₋₇haloalkyl, C₁₋₇hydroxyalkyl, C₁₋₇carboxyalkyl, or C₁₋₇aminoalkyl.

10

5. The compound according to any one of the preceding claims, wherein R₁ is selected from C₅₋₂₀aryl, C₅₋₂₀carboaryl, C₅₋₂₀heteroaryl, C₁₋₇alkyl-C₅₋₂₀aryl or C₅₋₂₀haloaryl, optionally substituted with one or more substituents.

15

6. The compounds according to any one of the preceding claims which is:

- 1-(4-Methoxy-benzyl)-2,3-dihydro-1H-imidazo[1,2-f]phenanthridinium bromide;
- 1-(2-Hydroxy-ethyl)-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;
- 2,3-Dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;
- 1-Isopropyl-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;
- 1-Cyclopropyl-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;
- 1-(4-Methoxy-phenyl)-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;
- 1-Phenyl-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;
- 1-paramethoxyaniline-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

1-Methoxycarbonylmethyl-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

1-(1-Methoxycarbonyl-2-phenyl-ethyl)-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

5 1-Benzyl-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

1-(2-Mercapto-ethyl)-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

10 3-(4-Methoxy-benzyl)-2,3-dihydro-1H-imidazo[1,2-a]quinolin-10-ylium bromide;

1-(4-Methoxy-benzyl)-2,3-dihydro-1H-imidazo[2,1-a]isoquinolin-4-ylium bromide;

15 1-(4-Methoxy-benzyl)-2,3-dihydro-1H-imidazo[1,2-a]pyridin-4-ylium bromide; 1-Propyl-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

1-(2-Hydroxy-1-methyl-ethyl)-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

1-[1-(4-Methoxy-phenyl)-ethyl]-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

20 7-Bromo-1-(4-methoxy-benzyl)-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

1-(4-Ethyl-phenyl)-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

1-Hexyl-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

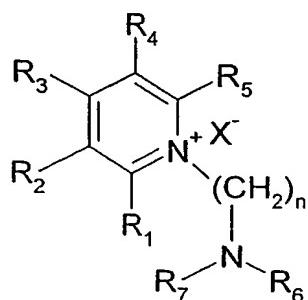
25 1-Dodecyl-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

1-Octadecyl-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide;

30 1-(3,3-Diphenyl-propyl)-2,3-dihydro-1H-imidazo[1,2-f]phenanthridin-4-ylium bromide; or

1-(4-Methoxy-benzyl)-2,3-dihydro-1H-imidazo[1,2-c]quinazolin-4-ylium bromide.

7. A compound represented by Formula B:



wherein:

5 n is 2 to 5;

R1 is hydrogen;

10 independently R2 and R3 and/or R4 and R5 together can form
an aromatic carbon or heterocyclic ring structure,
optionally substituted with one or more aromatic
substituents, or R2, R3, R4 and R5 are independently
selected from an aromatic substituent;

15 R6 and R7 are independently a substituent or a linking
group to form a multimeric compound in which a plurality
of compounds represented by Formula A as set out in any
one of claims 1 to 7 and/or Formula B are covalently
bonded together;

20

X- is an anionic moiety;

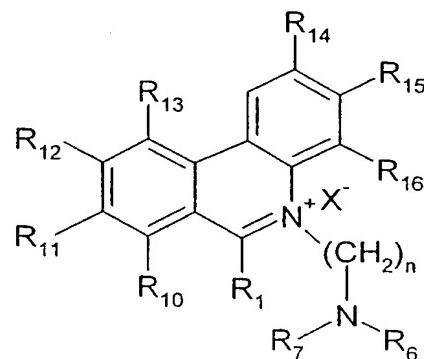
and wherein:

25 the substituent or substituents are independently selected
from halo, hydroxy, oxo, ether, formyl, C₁₋₇alkylacyl,
C₅₋₂₀arylacyl, acylhalide, carboxy, ester, acyloxy, amido,
acylamido, thioamido, tetrazolyl, amino, nitro, nitroso,
azido, cyano, isocyano, cyanato, isocyanato, thiocyanato,

isothiocyanato, sulfhydryl, thioether, sulfonic acid, sulfonate, sulfone, sulfonyloxy, sulfinyloxy, sulfamino, sulfonamino, sulfinamino, sulfamyl, sulfonamido, C₁-₇alkyl, C₁-₇haloalkyl, C₁-₇hydroxyalkyl, C₁-₇carboxyalkyl,
 5 C₁-₇aminoalkyl, C₅-₂₀aryl-C₁-₇alkyl, C₃-₂₀heterocyclyl, or C₅-₂₀aryl; and

the aromatic substituent or substituents are independently selected from hydrogen, -F, -Cl, -Br, -I, -OH, -OMe, -OEt,
 10 -SH, -SM₂, -SET, -C(=O)Me, -C(=O)OH, -C(=O)OMe, -CONH₂, -CONHMe, -NH₂, -NMe₂, -NET₂, -N(nPr)₂, -N(iPr)₂, -CN, -NO₂, -Me, -Et, -CF₃, -OCF₃, -CH₂OH, -CH₂CH₂OH, -CH₂NH₂, -CH₂CH₂NH₂, -Ph, ether, ester, amido, amino, C₁-₇alkyl, C₁-₇haloalkyl, C₁-₇hydroxyalkyl, C₁-₇carboxyalkyl,
 15 C₁-₇aminoalkyl, or C₅-₂₀aryl-C₁-₇alkyl.

8. The compound according to claim 7 which is represented by Formula Bi:



20

wherein:

n is 2 to 5;

25 R₁ is hydrogen;

R₆ and R₇ are independently hydrogen, a substituent or a linking group to form a multimeric compound in which a

plurality of compounds represented by Formula A and/or Formula B are covalently bonded together;

R₁₀, R₁₁, R₁₂, R₁₃, R₁₄, R₁₅ and R₁₆ are independently

5 selected from hydrogen or an aromatic substituent; and

X⁻ is an anionic moiety

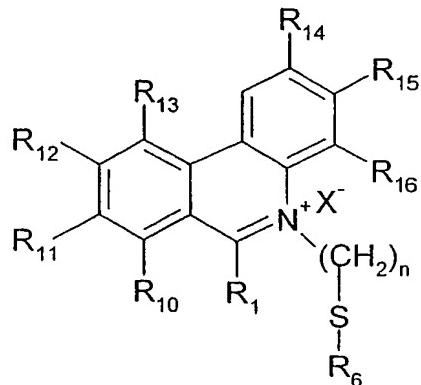
and wherein:

10 the substituent or substituents are independently selected from halo, hydroxy, oxo, ether, formyl, C₁₋₇alkylacyl, C₅₋₂₀arylacyl, acylhalide, carboxy, ester, acyloxy, amido, acylamido, thioamido, tetrazolyl, amino, nitro, nitroso, azido, cyano, isocyano, cyanato, isocyanato, thiocyanato, 15 isothiocyanato, sulphydryl, thioether, sulfonic acid, sulfonate, sulfone, sulfonyloxy, sulfinyloxy, sulfamino, sulfonamino, sulfinamino, sulfamyl, sulfonamido, C₁₋₇alkyl, C₁₋₇haloalkyl, C₁₋₇hydroxyalkyl, C₁₋₇carboxyalkyl, C₁₋₇aminoalkyl, C₅₋₂₀aryl-C₁₋₇alkyl, C₃₋₂₀heterocyclyl, or 20 C₅₋₂₀aryl; and

the aromatic substituent or substituents are independently selected from hydrogen, -F, -Cl, -Br, -I, -OH, -OMe, -OEt, -SH, -SMe, -SEt, -C(=O)Me, -C(=O)OH, -C(=O)OMe, -CONH₂, 25 -CONHMe, -NH₂, -NMe₂, -NET₂, -N(nPr)₂, -N(iPr)₂, -CN, -NO₂, -Me, -Et, -CF₃, -OCF₃, -CH₂OH, -CH₂CH₂OH, -CH₂NH₂, -CH₂CH₂NH₂, -Ph, ether, ester, amido, amino, C₁₋₇alkyl, C₁₋₇haloalkyl, C₁₋₇hydroxyalkyl, C₁₋₇carboxyalkyl, C₁₋₇aminoalkyl, or C₅₋₂₀aryl-C₁₋₇alkyl.

30

9. A compound which is represented by the Formula Bii:



wherein:

n is 2 to 5;

5

R₁ is hydrogen;

R₆ is hydrogen, a substituent; or a linking group to form a multimeric compound in which a plurality of compounds
10 represented by Formula A and/or Formula B are covalently bonded together;

R₁₀, R₁₁, R₁₂, R₁₃, R₁₄, R₁₅ and R₁₆ are independently selected from hydrogen or an aromatic substituent; and

15

X⁻ is an anionic moiety

and wherein:

20 the substituent or substituents are independently selected from halo, hydroxy, oxo, ether, formyl, C₁₋₇alkylacyl, C₅₋₂₀arylacyl, acylhalide, carboxy, ester, acyloxy, amido, acylamido, thioamido, tetrazolyl, amino, nitro, nitroso, azido, cyano, isocyano, cyanato, isocyanato, thiocyanato,
25 isothiocyanato, sulfhydryl, thioether, sulfonic acid, sulfonate, sulfone, sulfonyloxy, sulfinyloxy, sulfamino, sulfonamino, sulfinamino, sulfamyl, sulfonamido, C₁₋₇alkyl,

C₁₋₇haloalkyl, C₁₋₇hydroxyalkyl, C₁₋₇carboxyalkyl,
C₁₋₇aminoalkyl, C₅₋₂₀aryl-C₁₋₇alkyl, C₃₋₂₀heterocyclyl, or
C₅₋₂₀aryl; and

- 5 the aromatic substituent or substituents are independently selected from hydrogen, -F, -Cl, -Br, -I, -OH, -OMe, -OEt, -SH, -SMe, -SEt, -C(=O)Me, -C(=O)OH, -C(=O)OMe, -CONH₂, -CONHMe, -NH₂, -NMe₂, -NEt₂, -N(nPr)₂, -N(iPr)₂, -CN, -NO₂, -Me, -Et, -CF₃, -OCF₃, -CH₂OH, -CH₂CH₂OH, -CH₂NH₂,
10 -CH₂CH₂NH₂, -Ph, ether, ester, amido, amino, C₁₋₇alkyl, C₁₋₇haloalkyl, C₁₋₇hydroxyalkyl, C₁₋₇carboxyalkyl, C₁₋₇aminoalkyl, or C₅₋₂₀aryl-C₁₋₇alkyl.

- 15 10. The compound according to any one of claims 7 to 9, wherein n is 2 or 3.

11. The compound according to any one of claims 7 to 10, which is::

20 5-(2-tert-butylamino-ethyl)-phenanthridinium bromide;
5-(2-Piperidin-1-yl-ethyl)-phenanthridinium bromide;
piperazine phenanthridinium derivatives;
hydroxylamine derivatives;
1,5,9triaza-Cyclododecane;
25 5-[2-(4-methoxy-benzylsulfanyl)-ethyl]-phenanthridinium bromide.

- 30 12. The compound according to any one of the preceding claims, wherein X⁻ the anionic moiety is selected from halogen, tosylate or mesylate.

13. The compound according to any one of the preceding claims, wherein when the R₂ and R₃ and/or R₄ and R₅ substituents are present, one or both of these pairs of substituents together form an aromatic carbon or

heterocyclic ring structure, optionally substituted with one or more aromatic substituents.

14. The compound according to any one of the preceding

5 claims, wherein the compounds forming the multimeric compound are covalently bonded together via their respective R₁ substituents (Formula A) or via their R₆ or R₇ substituents (Formula B) or via a spacer group.

10 15. A multimeric compound formed by covalently linking two or more of the same or different compounds according to any one of the preceding claims

15 16. The multimeric compound according to claim 15, wherein compounds of Formula A are linked via the R₁ substituent and/or compounds represented by Formula B are linked via the R₆ and/or R₇ substituents.

20 17. The multimeric compound according to claim 15 or claim 16, wherein, where the compounds of Formula B are linked via the R₆ and R₇ substituents, the resulting linkage forms a cycloalkyl group.

25 18. The multimeric compound according to any one of claims 15 to 17, wherein the compounds are covalently bonded via a linker group or linker groups.

30 19. The multimeric compound according to claim 18, wherein the linker groups is a C₁₋₇ alk-di-yl group bonded to another group of Formula A or B in place of R₁ thereof; a piperazin-di-yl group bonded to another group of Formula A or B in place of R₁ thereof; a (N,N-C₁₋₆ dialkylene) C₁₋₇ alkylene amine bonded to two other groups of Formula A or B in place of R₁ thereof; or a cyclo (C₄₋₈) alk-tri-yl

group bonded to two other groups of Formula A or B in place of R₃ thereof.

20. The multimeric compound according to any one of
5 claims 15 to 17, wherein the multimeric compound is a dimer, trimer or tetramer of the compounds according to any one of claims 1 to 14.

21. The multimeric compound according to any one of
10 claims 13 to 18, wherein the compounds of Formula A and/or B are covalently bonded to a spacer group.

22. The multimeric compound according to claim 19 in which 2 or more, 3 or more, 4 or more, 5 or more, 10 or
15 more, 20 or more, 50 or more, or 100 or more compounds represented by Formula A or B are covalently linked via one or more spacer groups.

23. The multimeric compound according to claim 19 or
20 claim 20, wherein the spacer group is a polyamine compound comprising an alkyl chain having a plurality of amine groups for reacting with the compounds of Formula A and/or B.

25 24. The multimeric compound according to any one of claim 15 to 21, wherein the compound is a selected from:

Dimers:

30 Ethylene diamine derivative with two groups of Formula A.

Hydroxylamine derivative with two groups of Formula B.

Piperazine derivative with two groups of Formula B.

DIP dimer derived from the spacer N1-(2-Amino-ethyl)-ethane-1,2-diamine

5 DIP dimer derived from the spacer 2-Amino-1-[4-(2-amino-acetyl)-piperazin-1-yl]-ethanone

DIP dimer derived from the spacer 2-[4-(2-Amino-ethyl)-piperazin-1-yl]-ethylamine

10 Phenanthridinium dimer derived from the spacer 2-[4-(2-Amino-ethyl)-piperazin-1-yl]-ethylamine

Trimers:

15 Tris (2-aminoethylamine) derivatives with three groups of Formula A

Cis-triaminocyclohexane derivatives with three groups of Formula A.

20 2-Amino-1-[5,9-bis-(2-amino-acetyl)-1,5,9triaza-cyclododec-1-yl]-ethanone derivative with three groups of Formula A.

25 2-[5,9-Bis-(2-amino-ethyl)-1,5,9triaza-cyclododec-1-yl]-ethylamine derivative with three groups of Formula A.

1,5,9-triaza-cyclododecane derivative with three groups of Formula B.

30 DIP trimer derived from the spacer 2-Amino-1-[5,9-bis-(2-amino-acetyl)-1,5,9triaza-cyclododec-1-yl]-ethanone

DIP trimer derived from the spacer Cyclohexane-1,3,5-triamine

Phenanthridinium trimer derived from the spacer 2-[5,9-

5 Bis-(2-amino-ethyl)-1,5,9traza-cyclododec-1-yl]-ethylamine

Tetramers:

10 Tetrakis-(6-amino-hexyl)-ammonium bromide derivative with four groups of Formula A.

25. A composition comprising one or more compounds according to any one of the preceding claims.

15 26. A compound according to any one of claims 1 to 22 for use in a method of therapy or diagnosis.

20 27. Use of a compound according to any one of claims 1 to 22 as a DNA cross-linking agent, a DNA binding agent, a telomere binding agent, a biological probe or a diagnostic probe.

25 28. Use of a compound according to any one of claims 1 to 22 for the preparation of a medicament for the treatment of a condition treatable by an anti-cancer agent, an anti-inflammatory agent, an antiprotozoal agent, or a topoisomerase inhibitor.

30 29. The use according to claim 26, wherein the medicament is for the treatment of cancer.

30. Use of a compound according to any one of claims 1 to 22 as a synthetic agent, a reducing agent, a chiral

reducing reagent, an amine protecting group, a phase transfer catalyst, or a chiral resolving agent for purification or crystallisation.

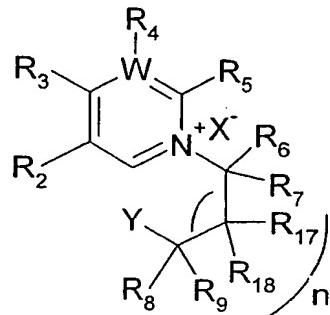
5 31. Use of a compound according to any one of claims 1 to 22 as an electronic material, a photochemically active agent or sensor or as molecular switching device.

10 32. A method of synthesising a heterocyclic aromatic cationic compound with an additional ring, the method comprising reacting a heterocyclic aromatic cationic compound comprising a ring nitrogen and at least one alpha hydrogen atom with a substituted or unsubstituted primary amine, a sulphate or a hydroxide, wherein the primary 15 amine, sulphate or hydroxide reacts with the heterocyclic aromatic compound by alpha addition, cyclisation and an oxidation step thereby providing the heterocyclic aromatic compound with an additional ring.

20 33. The method according to claim 30, wherein the additional ring is a five membered ring.

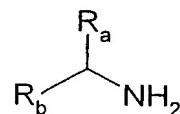
34. The method according to claim 30 or claim 31, wherein the reaction is a one pot reaction.

25 35. The method according to any one of claims 30 to 32, wherein the method is for making a compound represented by Formula A as defined in claim 1 and comprises:
reacting a heterocyclic aromatic compound represented
30 by the Formula A':



wherein Y is a leaving group and n and the remaining substituents are as defined in claim 1;

5 with a primary amine represented by the formula:

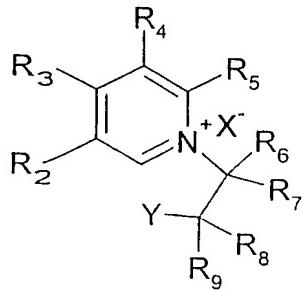


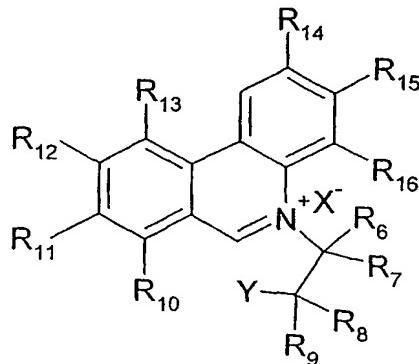
wherein the R_a-C-R_b substituents of the primary amine forms the group R_1 in the final compound;

10 the primary amine reacting with the phenanthridinium compounds of Formula A' by addition, cyclisation and oxidation to produce a compound represented by Formula A.

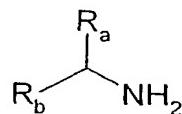
36. The method according to any one of claims 30 to 33, wherein the method is for making a compound represented by 15 Formula Ai or Aii as defined in claim 2 or claim 3 and comprises:

reacting a heterocyclic aromatic compound represented by the Formula Ai' or Aii' respectively:





wherein Y is a leaving group and the remaining substituents are as defined in claim 2 or claim 3;
with a primary amine represented by the formula:



wherein the Ra-C-Rb substituents of the primary amine forms the group R1 in the final compound;

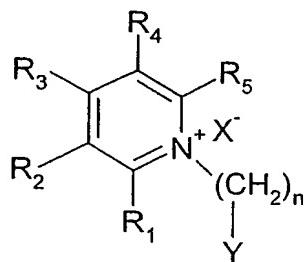
the primary amine reacting with the phenanthridinium compounds of Formula Ai' by addition, cyclisation and
10 oxidation to produce a compound represented by Formula Ai.

37. The method according to any one of claims 30 to 34,
wherein the method uses a primary amine which (1) has no
15 substituents in the alpha position, or (2) has a primary
carbon in the alpha position, or (3) has a secondary
carbon in the alpha position), or (4) has a tertiary
carbon in the alpha position, or (5) is or derives from an
amino acid.

20 38. The method according to any one of claims 30 to 34,
wherein the primary amine is an aromatic amines, such as
naphthalen-1-ylamine or anthracen-9-ylamine.

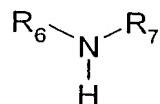
25 39. A method of making compounds represented by Formula B
as defined in claim 7, the method comprising:

reacting a heterocyclic aromatic compound represented by the Formula B':



wherein Y is a leaving group and the remaining
5 substituents are as defined in claim 7;

with a secondary amine represented by the formula:

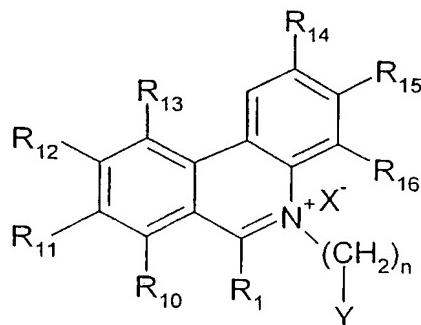


the secondary amine reacting with the compound of
Formula B' to produce a compound represented by Formula B.

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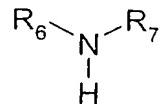
40. The method according to claim 37 for making compounds represented by Formula Bi as defined in claim 8, the method comprising:

reacting a heterocyclic aromatic compound represented
15 by the Formula Bi':



wherein Y is a leaving group and the remaining
substituents are as defined in claim 8;

with a secondary amine represented by the formula:

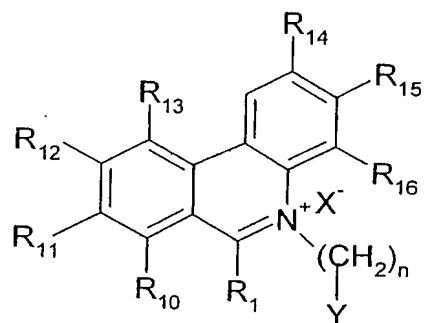


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the secondary amine reacting with the compound of Formula Bi' by to produce a compound represented by Formula Bi.

5 41. A method of making compounds represented by Formula Bii as defined in claim 9, the method comprising:

reacting a heterocyclic aromatic compound represented by the Formula Bii':



10 with a sulphur containing compound such as substituted or unsubstituted thiol to produce a compound represented by Formula Bii.

42. The method according to any one of claims 30 to 39,
15 further comprising the step of forming a multimeric compound according to any one of claim 15 to 22.